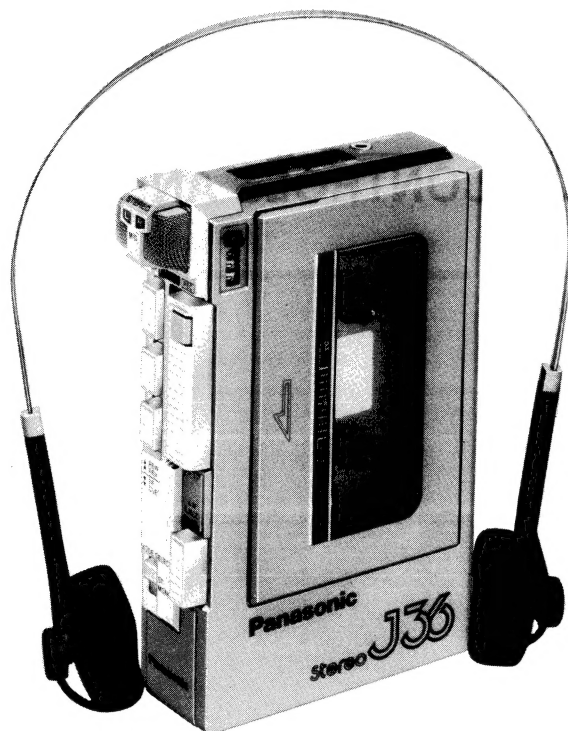


Service Manual

Stereo Mini Cassette Recorder/Player

Mini Cassette

RQ-J36
(Silver)


This is the Service Manual for the following areas.

□ For all European areas.

RQ-335 MECHANISM SERIES

Specifications

| | |
|-------------------------------|--|
| Power requirement: | Battery; 6V (four "R6" size dry batteries) Car battery; with optional car/boat adaptor RP-917 |
| Motor: | Electrical governor motor |
| Frequency range: | 70 — 10,000 Hz |
| Track system: | 4-track 2-channel stereo recording and playback Stereo playback with stereo headphones |
| Tape speed: | 4.8 cm/s |
| Fast forward and rewind time: | Approx. 150 seconds with C-60 cassette tape |
| Inputs: | MIC; sensitivity 0.25 mV, applicable microphone impedance 200Ω — 600Ω DC in; 6V |
| Output: | HEADPHONES; output level 560 mV over (at 16Ω) |
| Heads: | 1 super permalloy head for record/playback 1 erase head |
| Dimensions: | 95.5 mm(W) × 147.5 mm(H) × 36.0 mm(D) |
| Weight: | 440 g, without batteries |

Specifications are subject to change without notice.

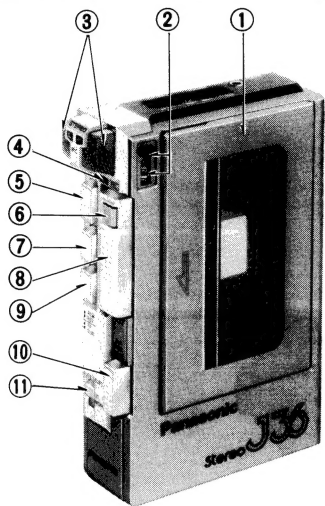
Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

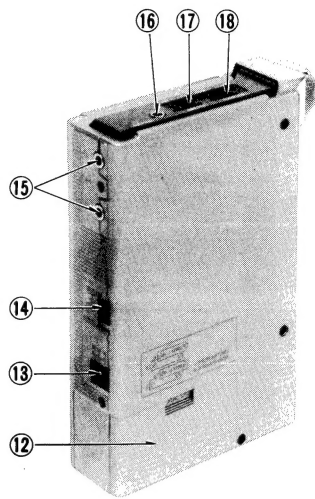
CONTENTS

| ITEM | PAGE |
|---|------|
| LOCATION OF CONTROLS AND COMPONENTS | 2 |
| DISASSEMBLY INSTRUCTIONS | 2 |
| CHIP PARTS REPAIR PROCEDURE | 3 |
| MEASUREMENT AND ADJUSTMENT METHODS | 4 |
| ELECTRICAL PARTS LOCATION | 6 |
| SCHEMATIC DIAGRAM | 7 |
| CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM | 9 |
| CABINET PARTS LOCATION | 10 |
| HEADPHONES PARTS LOCATION | 10 |
| MECHANICAL PARTS LOCATION | 11 |

LOCATION OF CONTROLS AND COMPONENTS



- ① Cassette compartment cover
- ② Tape counter and reset button
- ③ Built-in microphone
- ④ Battery-check lamp
- ⑤ Stop button
- ⑥ Record button
- ⑦ Rewind/review button
- ⑧ Playback button
- ⑨ Fast forward/cue button



- ⑩ Eject/pause button
- ⑪ Stereo/mono select switch
- ⑫ Battery cover
- ⑬ DC IN jack
- ⑭ Playback equalizer/tone control switch
- ⑮ Microphone jack
- ⑯ Headphones jack
- ⑰ Volume control
- ⑱ Balance volume control

DISASSEMBLY INSTRUCTION

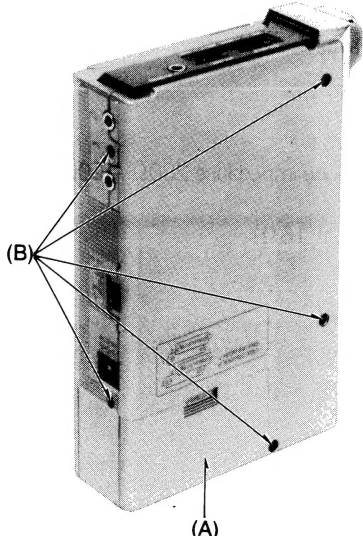


Fig. 1

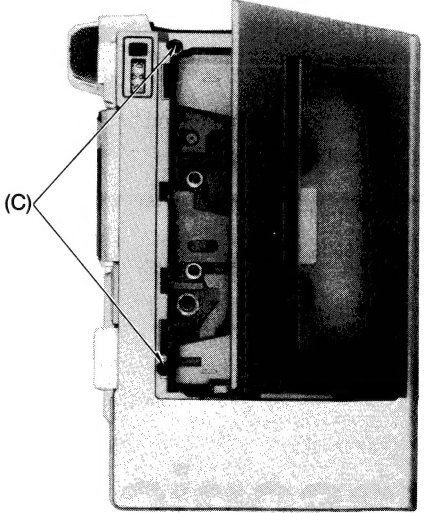


Fig. 2

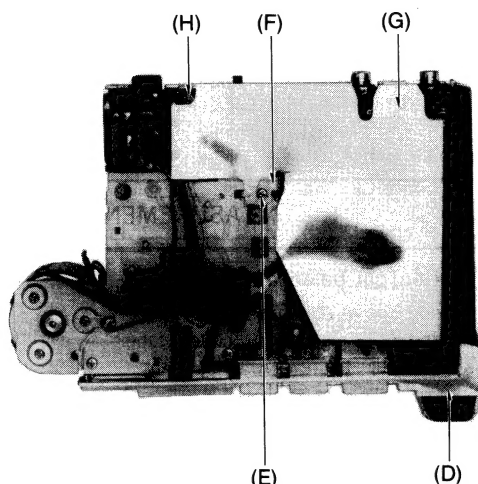


Fig. 3

| Ref. No. | Procedure | To remove — | Remove — | Shown in fig. — |
|----------|-----------|--|---|-----------------------|
| 1 | 1 | Bottom case assembly | <ul style="list-style-type: none"> • Battery cover (A) • 5 black screws (B) | 1 1 |
| 2 | 1→2 | Main case assembly and jack board assembly | <ul style="list-style-type: none"> • 2 black screws (C) | 2 |
| 3 | 1→2→3 | Main circuit board | <ul style="list-style-type: none"> • Front panel (D) • 1 screw (E) • P.B. holding angle (F) • Shield plate (G) • 1 screw (H) | 3 3 3 3 3 |

CHIP PARTS REPAIR PROCEDURE

(transistor, diode, resistor and capacitor, etc.)

A. Removal

1. Remove all solder from both ends of chip using a solder sucker (RP8062) or desoldering wick.
2. While the chip is hot remove it by turning with tweezers as shown in fig. 1.
 - * Make sure that the unit is turned OFF when checking the resistance and polarity of a chip.

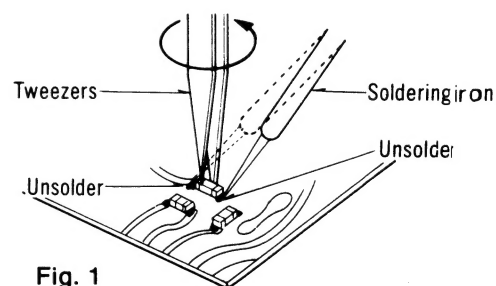


Fig. 1

B. Mounting

Place solder on the foil chip mounting, and solder the chip while applying the soldering iron in the direction of the arrow, as shown in the diagram (fig. 2).

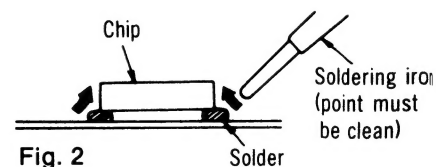


Fig. 2

C. Precautions in mounting the chip

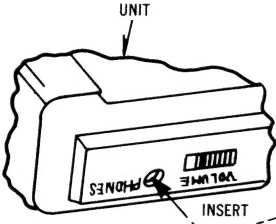
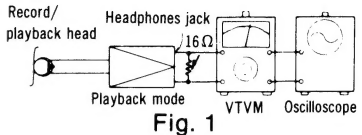
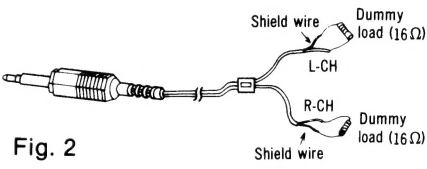
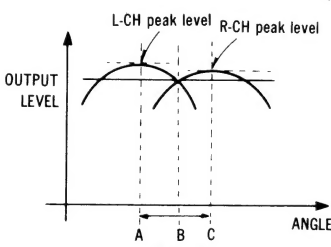
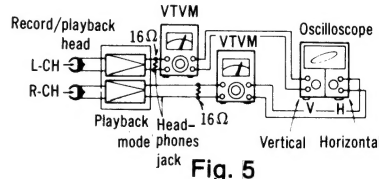
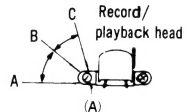
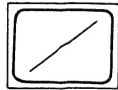
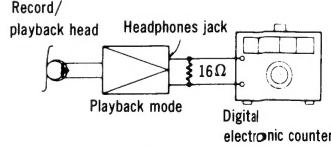
1. Do not heat the chip beyond 3 seconds.
2. Do not rub the electrode.
3. Use tweezers to prevent any damage to the surface.
4. It is recommended that a pencil-type soldering iron be used.
5. Maintain temperature control under 260°C (500°F) when soldering.
 - * Chip resistance (of not more than 100Ω) may vary greatly with the direction of mounting; therefore, mount the white side on the pattern side.
6. Do not re-use the tantalum capacitors or ceramic capacitors after removal (use new components).
7. Do not subject the components (chips) to excessive stress.

MEASUREMENT AND ADJUSTMENT METHODS

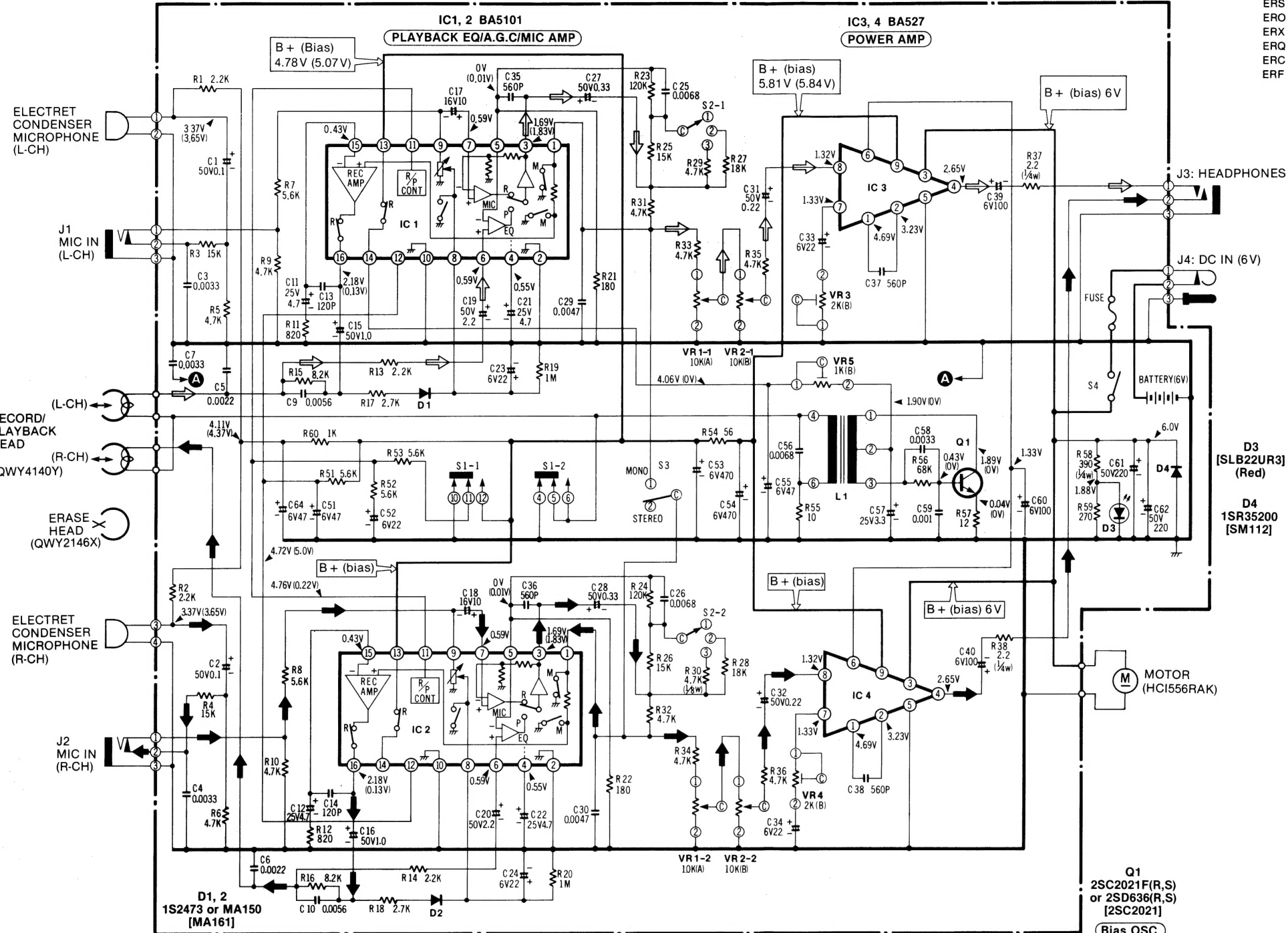
NOTES:

- Make sure heads are clean.
- Make sure capstan and pressure roller are clean.
- Judgeable room temperature: $20 \pm 5^\circ\text{C}$ ($68 \pm 9^\circ\text{F}$)

- Playback equalizer/tone control switch: Normal H position
- Mode select switch: STEREO
- Balance control: "0" position

| ITEM | MEASUREMENT & ADJUSTMENT |
|--|--|
| Head azimuth adjustment Condition: * Playback mode Equipment: * VTVM * Oscilloscope * Test tape (azimuth) ... QZZCFM | L-CH/R-CH output balance adjustment <ol style="list-style-type: none"> 1. Make connections as shown in fig. 1 and 2. 2. Playback the 8kHz signal from the test tape (QZZCFM). Adjust screw (A) in fig. 3 for maximum output L-CH and R-CH levels. When the output levels of L-CH and R-CH are not at maximum at the same time, readjust as follows. 3. Turn the screw shown in fig. 3 to find angles A and C (points where peak output levels for left and right channels are obtained). Then, locate the angle B between angles A and C, i.e., a point where L-CH and R-CH output levels come together at maximum. (Refer to figs. 3 and 4.)   <p>Fig. 1</p>  <p>Fig. 2</p> L-CH/R-CH phase adjustment <ol style="list-style-type: none"> 4. Make connections as shown in fig. 2 and 5. 5. Playback the 8kHz signal from the test tape (QZZCFM). Adjust screw (A) shown in fig. 3 so that pointers of the two VTVMs swing to maximum and a waveform as illustrated in fig. 6 is obtained on the oscilloscope.  <p>Fig. 4</p>  <p>Fig. 5</p>  <p>Fig. 3</p>  <p>Fig. 6</p> |
| Tape speed accuracy adjustment Condition: * Playback mode Equipment: * Digital electronic counter or frequency counter * Test tape ... QZZCWAT | Tape speed accuracy <ol style="list-style-type: none"> 1. Test equipment connection is shown in fig. 2 and 7. 2. Playback test tape (QZZCWAT 3,000Hz), and supply playback signal to frequency counter. 3. Take measurement at middle section of test tape. 4. Measure this frequency. 5. On the basis of 3,000Hz, determine value by following formula: $\text{Tape speed accuracy} = \frac{f - 3,000}{3,000} \times 100 (\%)$ where, f = measured value <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">Standard value: $\pm 2.5\%$</div> 6. If measured value is not within standard, adjust tape speed adjustment VR (shown in electrical parts location), so that frequency becomes 3,000Hz.  <p>Fig. 7</p> |

SCHEMATIC DIAGRAM



NOTES: RESISTORS

ERDCarbon
ERGMetal-oxide
ERSMetal-oxide
EROMetal-film
ERXMetal-film
ERQFuse type metallic
ERCSolid
ERFCement

CAPACITORS

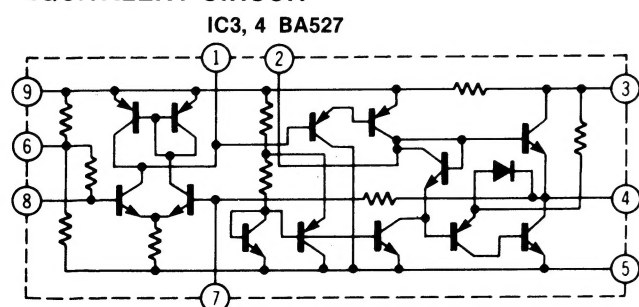
ECBACeramic
ECGDCeramic
ECKDCeramic
ECCDCeramic
ECFDCeramic
ECQMPolyester film
ECQEPolyester film
ECQFPolypropylene
ECEDElectrolytic

ECEONNon polar electrolytic
ECQSPolystyrene
ECSDTantalum
QCSTantalum
CHIP RESISTORS
RRDCarbon
CHIP CAPACITORS
QCUDCeramic
ECSETantalum

REPLACEMENT PARTS LIST

| Ref. No. | Part No. | Ref. No. | Part No. |
|---------------------------|--------------|----------------------------|--------------|
| RESISTORS | | CAPACITORS | |
| R1, 2 | RRD18XJ222 | C1, 2 | ECEA1HK0R1 |
| R3, 4 | RRD18XJ153 | C3, 4 | QCUT1H332KRL |
| R5, 6 | RRD18XJ472 | C5, 6 | QCUT1H222KRL |
| R7 | RRD18XJ562 | C7 | QCUT1H332MRL |
| R8 | ERD10TJ562 | C9, 10 | QCUT1H562KRL |
| R9, 10 | RRD18XJ472 | C11, 12 | ECEA1EK4R7 |
| R11 | RRD18XJ821 | C13, 14 | QCUT1H121KCL |
| R12 | ERD10TJ821 | C15, 16 | ECEA1HK010 |
| R13, 14 | RRD18XJ222 | C17, 18 | ECEA1CK100 |
| R15 | RRD18XJ822 | C19, 20 | ECEA1HK2R2 |
| R16 | ERD10TJ822 | C21, 22 | ECEA1EK4R7 |
| R17 | ERD10TJ272 | C23, 24 | ECEA0JK220 |
| R18 | RRD18XJ272 | C25, 26 | QCUT1H682KRL |
| R19, 20 | RRD18XJ105 | C27, 28 | ECEA1HKR33 |
| R21, 22 | RRD18XJ181 | C29, 30 | QCUT1H472KRL |
| R23 | ERD10TJ124 | C31, 32 | ECEA1HKR22 |
| R24 | RRD18XJ124 | C33, 34 | ECEA0JK220 |
| R25, 26 | RRD18XJ153 | C35, 36, 37, 38 | QCUT1H561MRL |
| R27, 28 | RRD18XJ183 | C39, 40 | ECEA0JK101 |
| R29 | RRD18XJ472 | C51 | ECEA0JK470 |
| R30, 31 | ERD10TJ472 | C52 | ECEA0JK220 |
| R32, 33, 34, 35, 36 | RRD18XJ472 | C53, 54 | ECEA0JSS471 |
| R37, 38 | ERD25FJ2R2 | C55 | ECEA0JK470 |
| R51 | ERD10TJ562 | C56 | ECFDD682KBL |
| R52, 53 | RRD18XJ562 | C57 | ECEA1EK3R3 |
| R54 | RRD18XJ560 | C58 | QCUT1H332KRL |
| R55 | RRD18XJ100 | C59 | QCUT1H102KRL |
| R56 | RRD18XJ683 | C60 | ECEA0JK101 |
| R57 | RRD18XJ120 | C61, 62 | ECEA1HSS221 |
| R58 | ERD25FJ391 | C64 | ECEA0JK470 |
| R59 | ERD10TJ271 | TRANSISTOR | |
| R60 | RRD18XJ102 | Q1 | 2SC2021 |
| CHIP JUMPERS | | DIODES | |
| JP1, 2, 3 | RRD18XK000 | D1, 2 | MA161 |
| VARIABLE RESISTORS | | D3 | SLB22UR3 |
| VR1 | EVUCAAT65A14 | D4 | SM112 |
| VR2 | EVUCBAT65679 | INTEGRATED CIRCUITS | |
| VR3, 4 | EVNB3AA00B23 | IC1, 2 | BA5101 |
| VR5 | EVNB3AA00B13 | IC3, 4 | BA527 |

EQUIVALENT CIRCUIT



NOTES:

- S1-1, S1-2.....Record/playback select switch (shown in playback position).
- S2-1—S2-2.....Tape select switch (shown in NORMAL-Hi position).
 -Normal-Hi
 -Normal-Low & Metal-Hi
 -Metal-Low
- S3.....Mode select switch (shown in STEREO position).
 -STEREO, ②.....MONO
- S4.....Power ON/OFF switch (shown in OFF position).
- VR1-1, 1-2.....Volume control.
- VR2-1, 2-2.....Balance control.
- VR3, 4.....Playback gain adjustment VR.
- VR5.....Bias current adjustment VR.
- Resistance are in ohms (Ω), 1/8 watt unless specified otherwise. 1 K = 1000(Ω), 1 M = 1000K(Ω).
- Capacity are in microfarads (μF) unless specified otherwise. P = Pico-farads.
- All voltage values shown in circuitry are under no signal condition and record mode with volume control at minimum position. However, the voltage in playback mode is indicated in () when it differs from that in record mode. For measurement, use VTVM.

- () this arrow indicates the flow of the playback signal.
- () this arrow indicates the flow of the recording signal.
- Described in the schematic diagram are two types of numbers; the supply parts number and production parts number for transistors and diodes. One type of number is used for supply parts number and production parts number when they are identical.

e.g. Q1

2SC2021F(R,S) — Production parts number
(or 2SD636(R,S))
[2SC2021] — Supply parts number
D4
1S2473 — Production parts number
(or MA150)
[MA161] — Supply parts number

- The supply parts number is described alone in the replacement parts list.

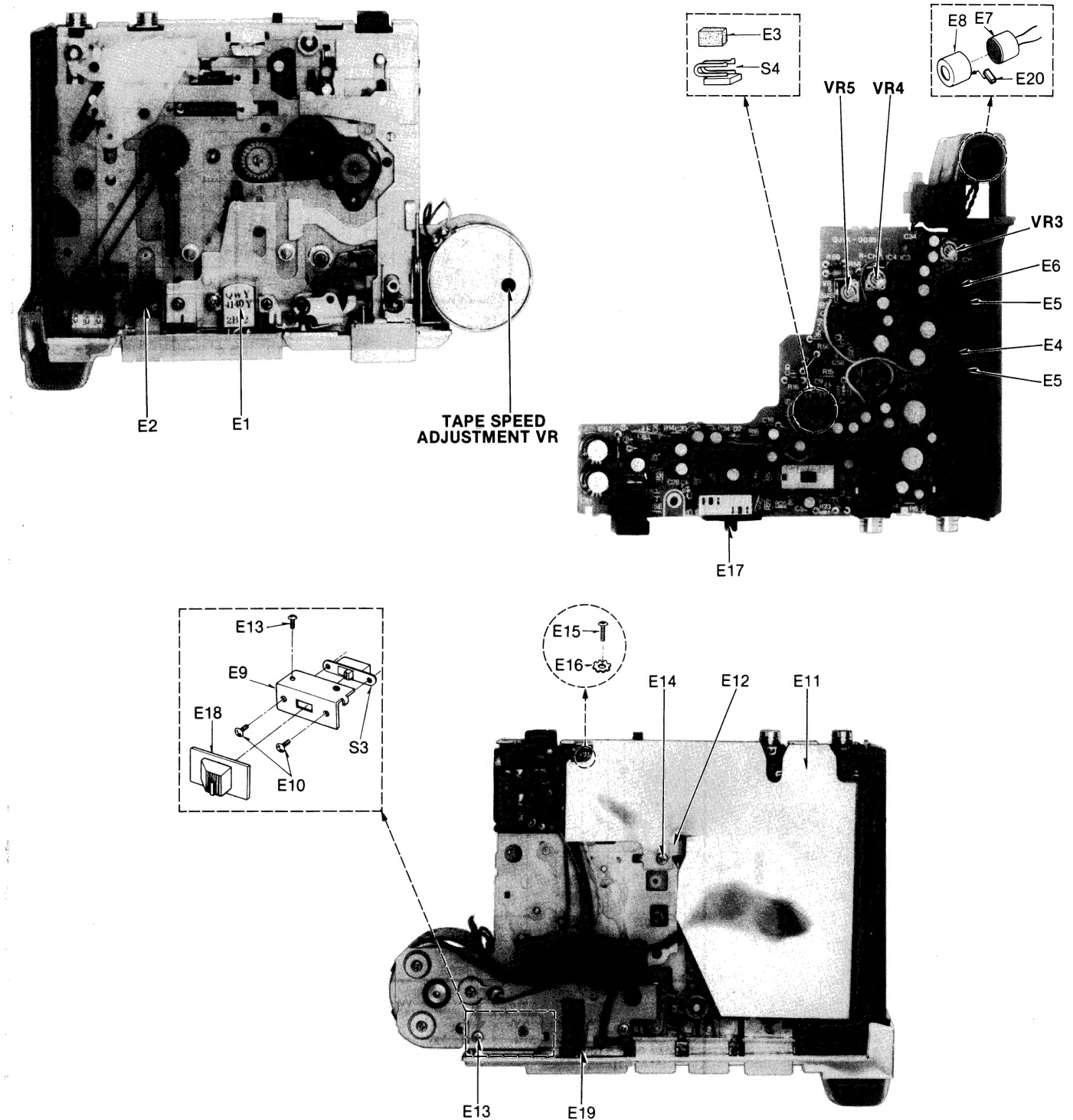
- This schematic diagram may be modified at any time with the development of new technology.

SPECIFICATIONS

| | |
|--------------------------------|--|
| Bias oscillation frequency | 35 ± 5 kHz |
| Standard recording input level | 1 kHz: -72 ± 4 dB MIC: |
| Overall frequency response | 150 Hz: -3 ± 5 dB 1 kHz: 0 dB 6 kHz: -2 ± 6 dB |

| ITEM | MEASUREMENT & ADJUSTMENT | | | | | | | | | | |
|--|--|--------|---------------|--------|------|-------|--------------|-------|-----------------|-------|-----------------|
| Playback frequency response Condition: * Playback mode Equipment: * VTVM * Oscilloscope * Test tape ... QZZCFM | <ol style="list-style-type: none"> Test equipment connections is shown in fig. 1 and 2. Playback frequency response test tape (QZZCFM). Measure output level at 315Hz, 125Hz, 1kHz, 4kHz, 8kHz and compare each output level with standard frequency 315Hz, at the headphones jack. Make measurement for both channels. Make sure that the measured value is within the range specified in the frequency response table (shown in fig. 8). <table border="1"> <caption>Playback frequency response table</caption> <tr> <td>125 Hz</td><td>-2 ± 4 dB</td></tr> <tr> <td>315 Hz</td><td>0 dB</td></tr> <tr> <td>1 kHz</td><td>0 ± 4 dB</td></tr> <tr> <td>4 kHz</td><td>-1.0 ± 4 dB</td></tr> <tr> <td>8 kHz</td><td>-1.5 ± 5 dB</td></tr> </table> <p>Fig. 8</p> | 125 Hz | -2 ± 4 dB | 315 Hz | 0 dB | 1 kHz | 0 ± 4 dB | 4 kHz | -1.0 ± 4 dB | 8 kHz | -1.5 ± 5 dB |
| 125 Hz | -2 ± 4 dB | | | | | | | | | | |
| 315 Hz | 0 dB | | | | | | | | | | |
| 1 kHz | 0 ± 4 dB | | | | | | | | | | |
| 4 kHz | -1.0 ± 4 dB | | | | | | | | | | |
| 8 kHz | -1.5 ± 5 dB | | | | | | | | | | |
| Playback gain Condition: * Playback mode * Volume control: MAX * Balance control: "0" position Equipment: * VTVM * Oscilloscope * Test tape ... QZZCFM | <ol style="list-style-type: none"> Test equipment connection is shown in fig. 1 and 2. Playback standard recording level portion on test tape (QZZCFM 315Hz, 0dB), and using VTVM measure the output level at the headphones jack. Make measurement for both channels. <p>Standard value: around 0.68V</p> <p>Adjustment If measured value is not standard, adjust VR3 (L-CH), VR4 (R-CH) (shown in electrical parts location).</p> | | | | | | | | | | |
| Bias current adjustment Condition: * Record mode Equipment: * VTVM * Oscilloscope | <ol style="list-style-type: none"> Test equipment connection is shown in fig. 9. Place the unit into the record mode. Read voltage on VTVM and calculate bias current by the following formula: $\text{Bias current (A)} = \frac{\text{Value read on VTVM (V)}}{10 (\Omega)}$ <p>Standard value: around 0.75mA</p> <ol style="list-style-type: none"> If measured value is not within standard value, make adjustment by turning VR5. <p>Fig. 9</p> | | | | | | | | | | |

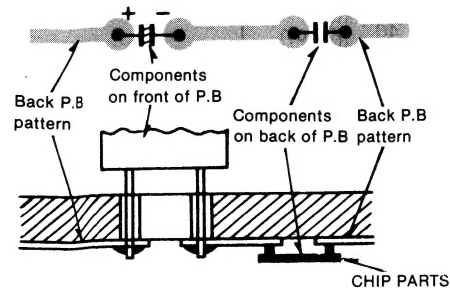
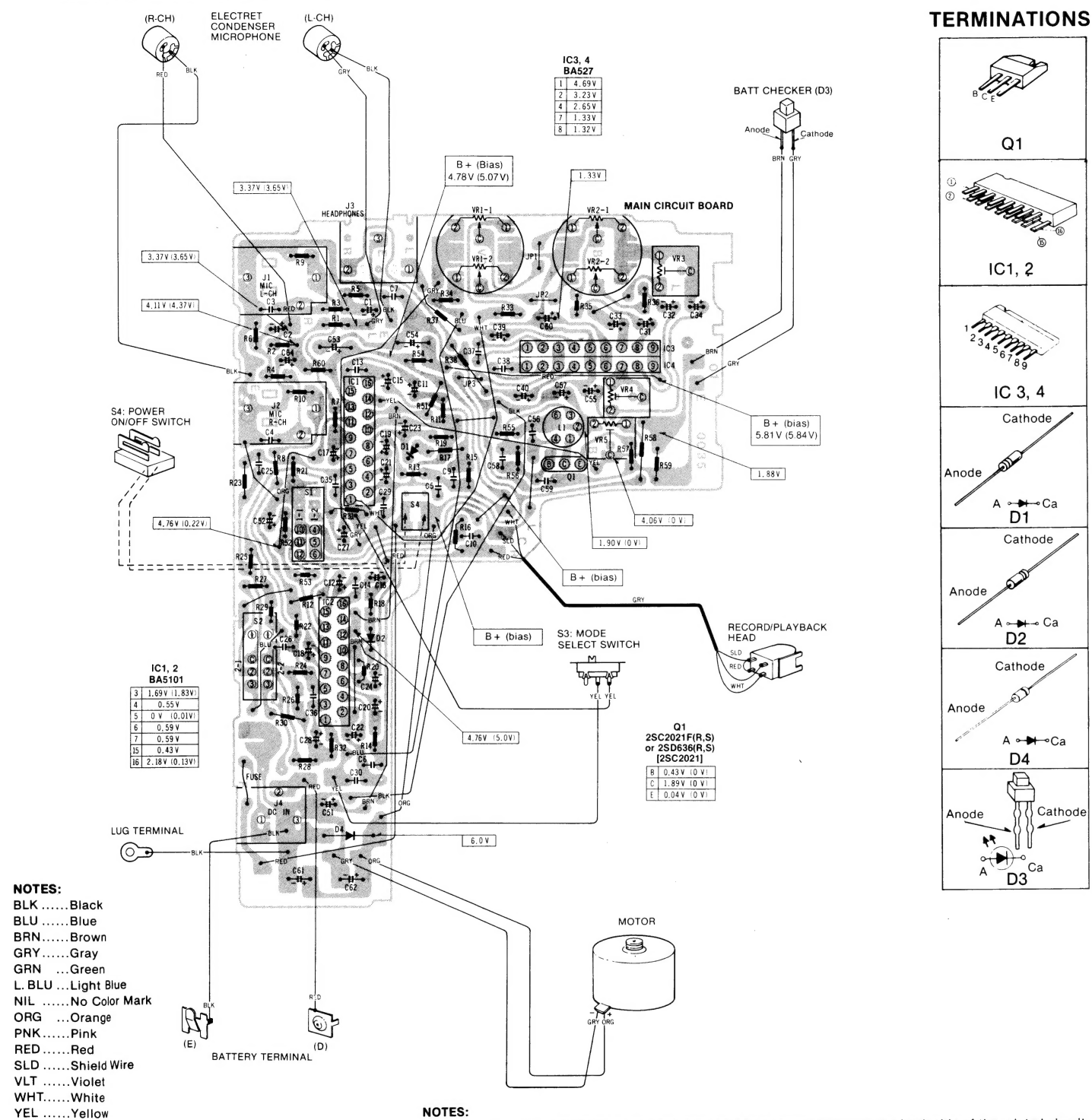
ELECTRICAL PARTS LOCATION





REPLACEMENT PARTS LIST

| Ref. No. | Part No. | Part Name & Description | Ref. No. | Part No. | Part Name & Description |
|-------------------------|------------|-------------------------------|----------|-----------|-------------------------|
| ELECTRICAL PARTS | | | | | |
| E1 | QWY4140Y | Record/Playback Head | E10 | XSN2+3 | Screw $\pm 2 \times 3$ |
| E2 | QWY2146X | Erase Head | E11 | QTSAA0018 | Shield Plate |
| E3 | QBMA0014 | Cushion-B | E12 | QMA4354 | P.B Holding Angle |
| E4 | QGT1596 | Volume Knob | E13 | XQN2C3FN | Screw $\pm 2 \times 3$ |
| E5 | XQN17B28FZ | Screw $\pm 1.7 \times 2.8$ | E14 | XQN2C6FN | Screw $\pm 2 \times 6$ |
| E6 | QGT1597 | Balance Volume Knob | E15 | XSN2+4 | Screw $\pm 2 \times 4$ |
| E7 | WM034AZ | Electret Condenser Microphone | E16 | XWC2B | Washer 2φ |
| E8 | QBG1725 | Microphone Rubber | E17 | QKJA0042 | Switch Shelter |
| E9 | QMA4445 | Switch Angle | E18 | QGT1595 | Mode Select Knob |
| | | | E19 | QBMA0016 | Cushion |
| | | | E20 | QBMA0014 | Cushion-B |

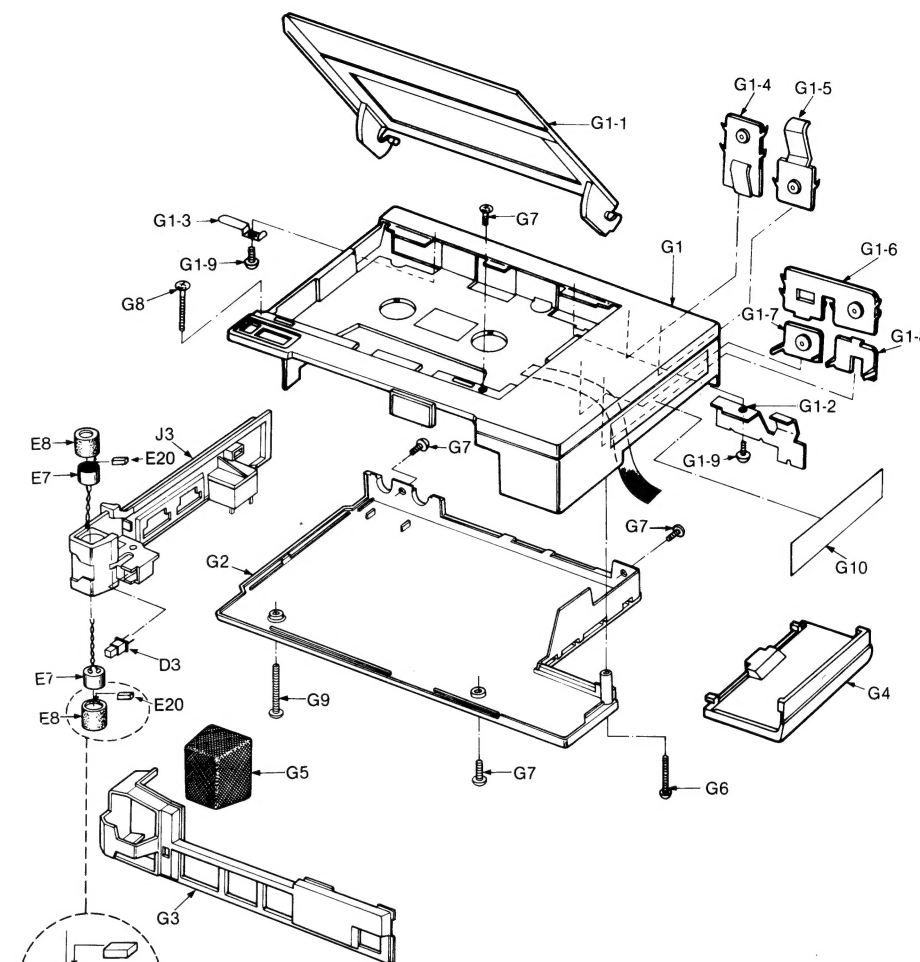
CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM



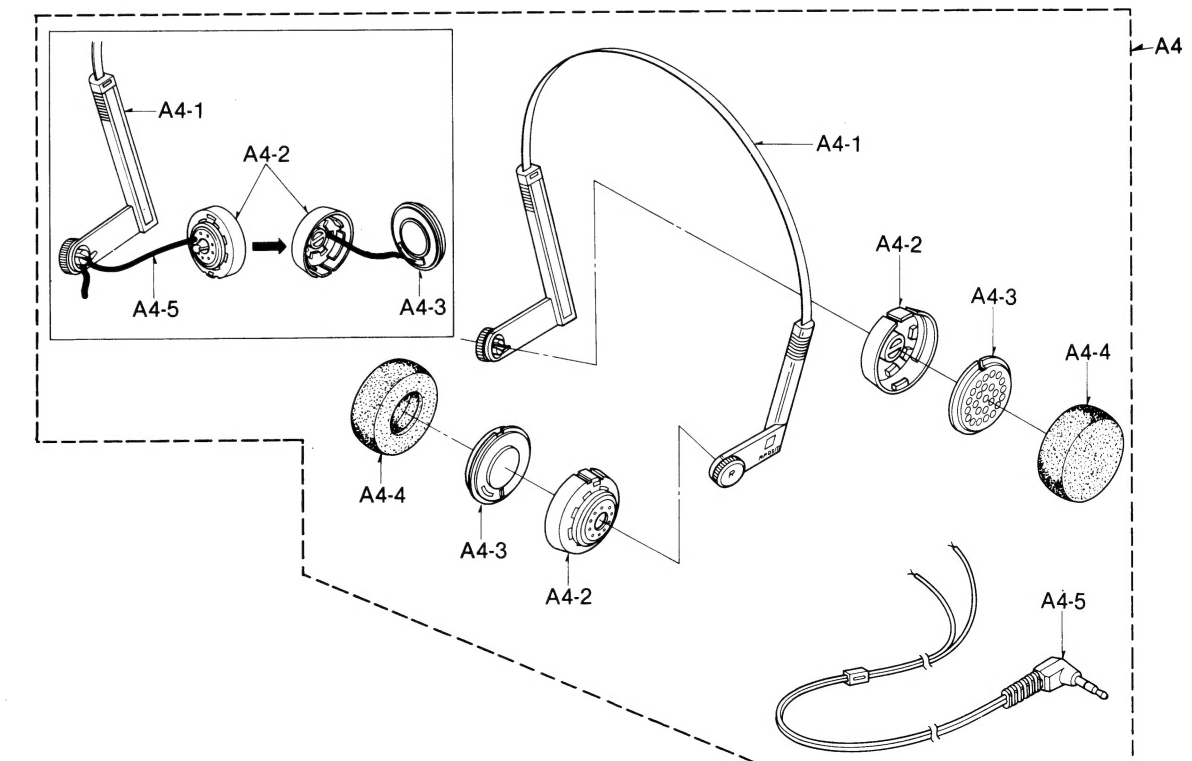
- NOTES:**
- This circuit shown in  on the conductor indicates printed circuit on the back side of the printed circuit board (chip side).
 - Components on front of P.B are identified by black symbols.
 - Components on back of P.B are identified by red symbols.
 - Values indicated in  are under no signal condition and record mode with volume control at minimum position.
However, the voltage in playback mode is indicated in () when it differs from that in record mode.
For measurement, use VTVM.
 - Described in the circuit board diagram are two type of numbers; the supply parts number and production parts number for transistor.
One type of number is used for supply parts number and production parts number when they are identical.
e.g. Q1, 2

| | |
|----------------|---------------------------|
| 2SC2412F(R,S) | — Production parts number |
| or 2SC636(R,S) | |
| [2SC2012] | — Supply parts number |
 - The supply parts number is described alone in the replacement parts list.
- This circuit board diagram may be modified at any time with the development of new technology.**

CABINET PARTS LOCATION



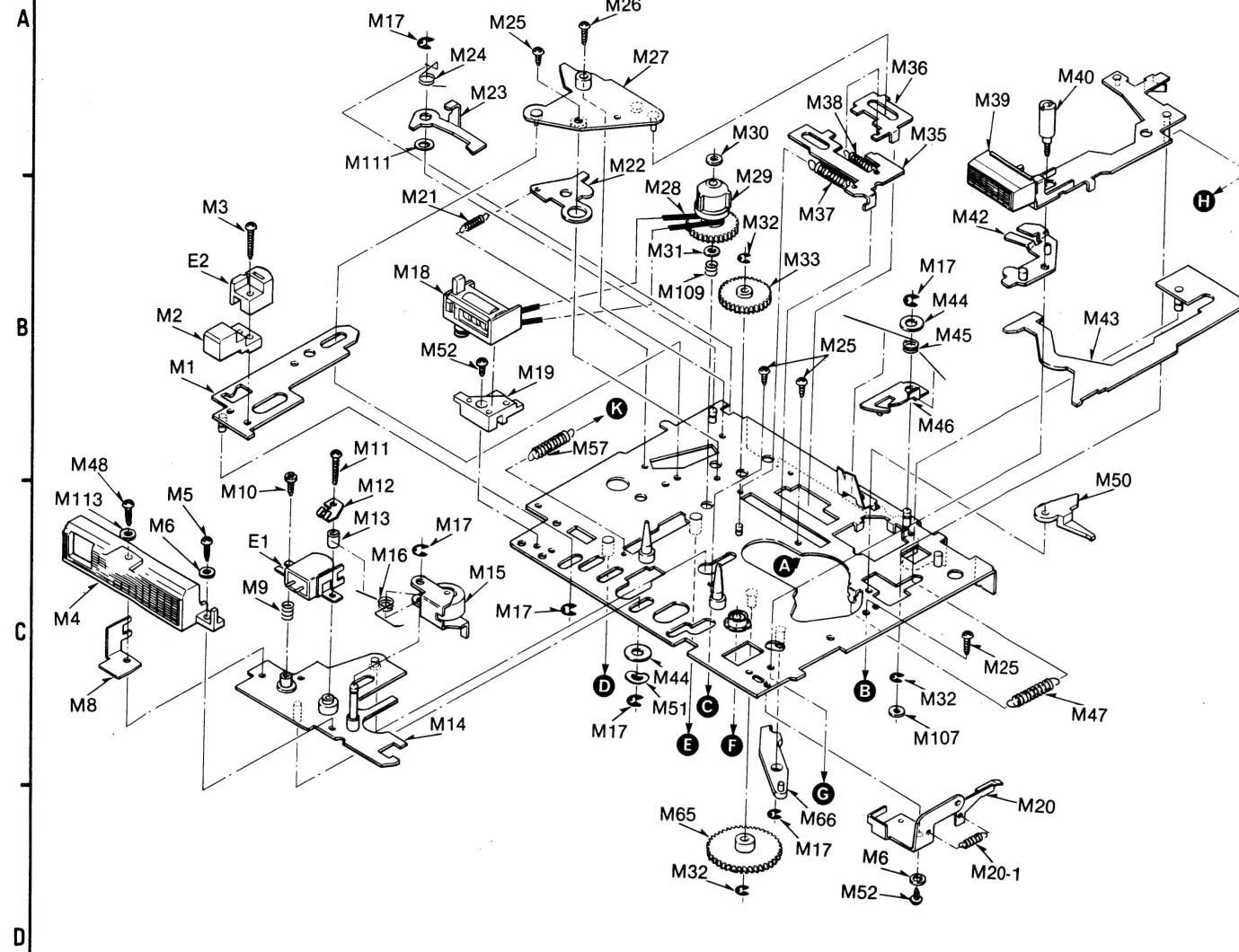
HEADPHONES PARTS LOCATION



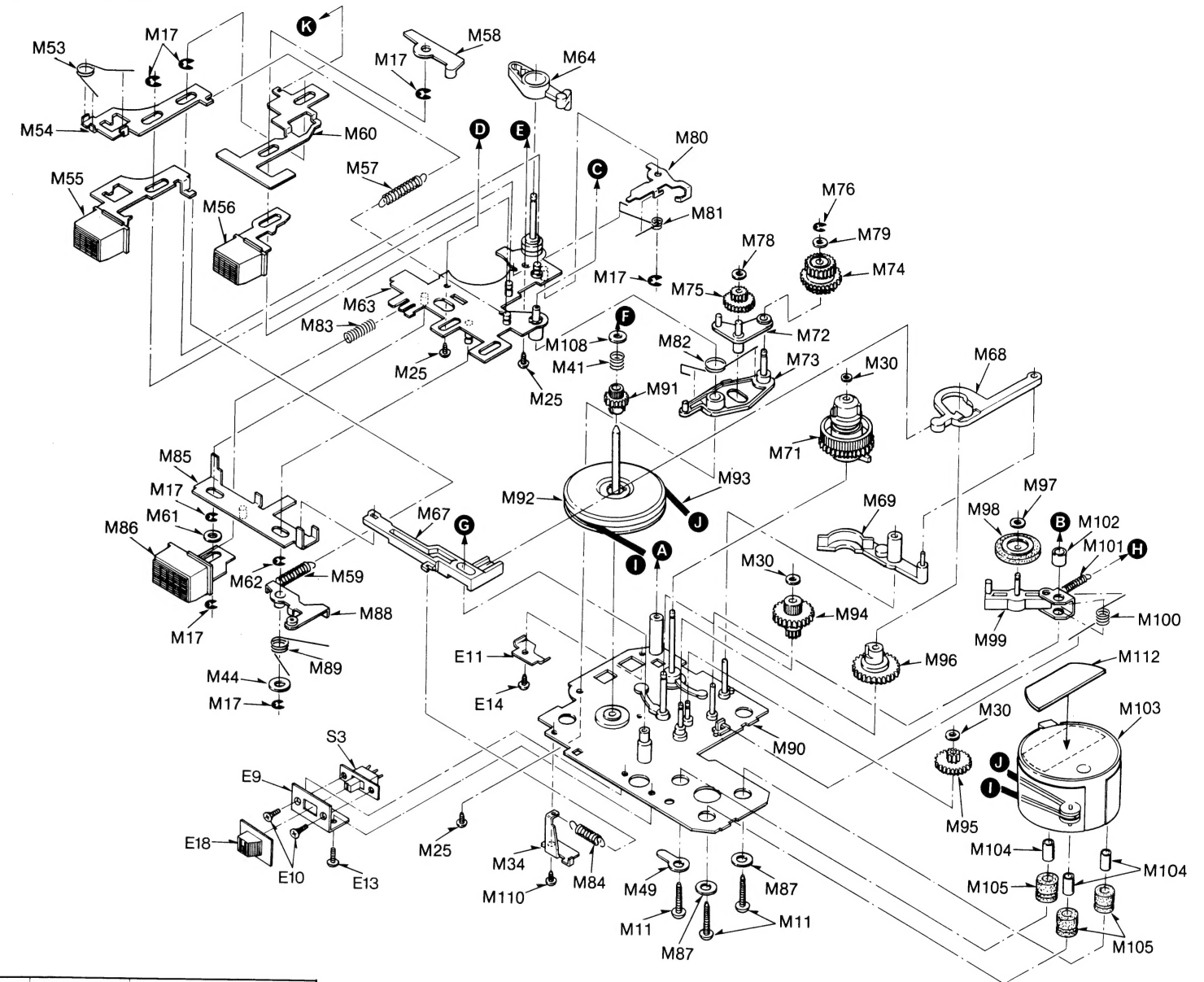
REPLACEMENT PARTS LIST

| Ref. No. | Part No. | Part Name & Description |
|-----------------------------|-------------|----------------------------|
| <u>CABINET PARTS</u> | | |
| G1 | QYMA0178H | Main Case Assembly |
| G1-1 | QYFA0039H | Cassette Lid Assembly |
| G1-2 | QBPI1941 | Cassette Lid Spring |
| G1-3 | QMA4462 | Cassette Lid Holding Angle |
| G1-4 | QJB0152 | Battery Terminal-A |
| G1-5 | QJB0153 | Battery Terminal-B |
| G1-6 | QJB0154 | Battery Terminal-C |
| G1-7 | QJB0155 | Battery Terminal-D |
| G1-8 | QJB0156 | Battery Terminal-E |
| G1-9 | XTN2+6BFZ | Tapping Screw +2×6 |
| G2 | QYMA0175H | Bottom Case Assembly |
| G3 | QGPA0009 | Front Panel |
| G4 | QKFA4001H1 | Battery Cover |
| G5 | QGKA0111 | Microphone Net |
| G6 | XTS2+20BFZ | Tapping Screw +2×20 |
| G7 | XSX2+6BV | Screw +2×6 |
| G8 | XSN2+14 | Screw +2×14 |
| G9 | XSN2+18 | Screw +2×18 |
| G10 | QGSA00078 | Main Name Plate |
| <u>ACCESSORIES</u> | | |
| A1 | QQT3305 | Instruction Book |
| A2 | QJP0959 | Erase Plug |
| A3 | QKFA0065 | Carring Bag |
| A4 | RP9517XP | Stereo Headphones Assembly |
| A4-1 | QYQ0310 | Headphones: Band Assembly |
| A4-2 | QKJ0530 | Housing |
| A4-3 | QYM0772 | Speaker Assembly |
| A4-4 | QBM1309 | Ear Pad |
| A4-5 | QEB0156 | Headphones Cord |
| A5 | QZC0015 | Shoulder Bet |
| <u>PACKINGS</u> | | |
| P1 | QPNA0160 | Inside Carton |
| P2 | QPAA0080 | Cushion |
| P3 | XZB16X27A02 | Poly Bag (for UNIT) |
| P4 | QPAA0081 | Pad |

MECHANICAL PARTS LOCATION (Front View)



(Rear View)



REPLACEMENT PARTS LIST

| Ref. No. | Part No. | Part Name & Description | Ref. No. | Part No. | Part Name & Description | Ref. No. | Part No. | Part Name & Description | Ref. No. | Part No. | Part Name & Description |
|-------------------------|-----------|--|----------|----------|----------------------------|----------|----------|-------------------------------|----------|-----------|---------------------------|
| MECHANICAL PARTS | | | M27 | QMR2080 | Rod Holder | M54 | QMR2015 | Playback Rod | M84 | QBT1901 | Lock Plate Spring |
| M1 | QXK2530 | Erase Head Base Plate Assembly | M28 | QDB0310 | Counter Belt | M55 | QXB0756 | Rewind Button Assembly | M85 | QXR0776 | Lock Plate Assembly |
| M2 | QGO1930 | Record Button | M29 | QXD0116 | Supply Reel Table Assembly | M56 | QXB0757 | Fast Forward Button Assembly | M86 | QXB0755 | Stop Button Assembly |
| M3 | XSN2+10 | Screw + 2×10 | M30 | QBW2008 | Snap Washer | M57 | QBT1900 | Playback Rod Spring | M87 | XWE2A7 | Washer |
| M4 | QGO1929S | Playback Button | M31 | QBKA0006 | Washer | M58 | QML3635 | Cue Lever-B | M88 | QXL1375 | Cue Lever-A Assembly |
| M5 | XSN2+5 | Screw + 2×5 | M32 | XUC15FT | Stop Ring | M59 | QBT1906 | Rewind Rod Spring | M89 | QBN1763 | Cue Lever Spring |
| M6 | XWA2B | Washer 2φ | M33 | QDG1212 | Gear (8) | M60 | QMR1947 | Fast Forward/Rewind Rod | M90 | QXK2532 | Lower Base Plate Assembly |
| M8 | QMG0101 | Tape Guide | M34 | QMA4294 | Lock Plate Spring Angle | M61 | QBJA3025 | Washer | M91 | QDG1205 | Gear (1) |
| M9 | QBC1339 | Head Spring | M35 | QMR2024 | Switch Rod-A | M62 | QXUC25FT | Stop Ring | M92 | QXF0179 | Flywheel Assembly |
| M10 | XSBQ2D45 | Head Adjustment Screw | M36 | QMR2025 | Switch Rod-B | M63 | QXH0414 | Button Holder Assembly | M93 | QDB0283 | Flywheel Belt |
| M11 | XSN2+8 | Screw + 2×8 | M37 | QBT1904 | Switch Rod Spring-A | M64 | QML3804 | Switch Lever | M94 | QDG1207 | Gear (3) |
| M12 | QTD1300 | Wire Clamper | M38 | QBT1905 | Switch Rod Spring-B | M65 | QDG1255 | Gear (2) | M95 | QDG1208 | Gear (4) |
| M13 | QMC0142 | Head Collar | M39 | QXR0791 | Pause Rod Assembly | M66 | QML3857 | Idler Driving Lever | M96 | QDG1209 | Gear (5) |
| M14 | QXK2528 | Head Base Plate Assembly | M40 | QMP1822 | Pause Rod Guide | M67 | QMR1949 | Lock Release Rod | M97 | QBW2030 | Washer |
| M15 | QXL1455 | Pressure Roller Lever Assembly | M41 | QBC1406 | Capstan Spring | M68 | QML3632 | Auto-Stop Detection Lever-B | M98 | QX10114 | Takeup Idler Assembly |
| M16 | QBN1869 | Pressure Roller Lever Spring | M42 | QXL1427 | Pause Lever Assembly | M69 | QML1374 | Auto-Stop Detection Lever-A | M99 | QXL1387 | Idler Lever Assembly |
| M17 | XUC2FT | Stop Ring 2φ | M43 | QXR0755 | Eject Rod Assembly | M70 | QXD0115 | Takeup Reel Table Assembly | M100 | QBN1762 | Idler Spring |
| M18 | QDC0129 | Tape Counter | M44 | XWE3A7 | Poly Washer | M71 | | | M101 | QBT1903 | Pause Rod Spring |
| M19 | QMC1279 | Counter Table | M45 | QBN1872 | Pause Lock Plate Spring | M72 | QXL1377 | Fast Forward Lever-A Assembly | M102 | QMC0106 | Collar |
| M20 | QXK2534 | Head Base Plate Holding Angle Assembly | M46 | QML3626 | Pause Lock Plate | M73 | QXL1378 | Fast Forward Lever-B Assembly | M103 | HCI556RAK | Motor Assembly |
| M20-1 | QBT1898 | Eject Lever Spring | M47 | QBT1926 | Eject Rod Spring | M74 | QXG1049 | Fast Forward Gear Assembly | M104 | QMC0141 | Motor Collar |
| M21 | QBT1902 | Record Rod Spring | M48 | XSN2+4 | Screw + 2×4 | M75 | QDG1210 | Gear (6) | M105 | QBG1727 | Motor Rubber |
| M22 | QML3623 | Record Rod | M49 | QTD0004 | Lug Terminal | M76 | XUC12FT | Stop Ring 1.2φ | M107 | QBW2042 | Washer |
| M23 | QML3803 | Erase Safety Metal | M50 | QML3638 | Auto Safety Lever | M77 | QBW2010 | Washer | M108 | QBJ3098 | Washer |
| M24 | QBN1871 | Erase Safety Metal Spring | | | | M78 | QXUC12FT | Stop Ring 1.2φ | M109 | QBC0010 | Back Tension Spring |
| M25 | XQN16B3FZ | Screw + 1.6×3 | M51 | QBP1519 | Spring Washer | M79 | QBJA3014 | Washer | M110 | XQN2C3FN | Screw |
| M26 | XQN16B5FZ | Screw + 1.6×5 | M52 | XSN2+3 | Screw + 2×3 | M80 | QML3648 | Gear Lever | M111 | QBJA3026 | Washer |
| | | | M53 | QBN1765 | Head Base Plate Spring | M81 | QBN1870 | Gear Lever Spring | M112 | QTS00020 | Shield Plate |
| | | | | | | M82 | QBN1764 | Fast Forward Lever Spring | M113 | XWG2 | Washer 2φ |
| | | | | | | M83 | QBC1377 | Stop Button Spring | | | |

When servicing this mechanism unit, refer to the disassembly notes and assembly instructions described in the service manuals of RQ-337, RS-J3, RQ-335A and RQ-J5 (RQ-335 mechanism series).

SPECIFICATIONS

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|--|--------------------------|
| Pressure of pressure roller | 300 ± 50 g |
| Takeup tension • Use cassette torque meter ... QZZRKCT | 40 ± 15 - 10 g-cm |
| Wow and flutter: JIS • Use test tape ... QZZCWAT | Less than 0.48% (RMS) |